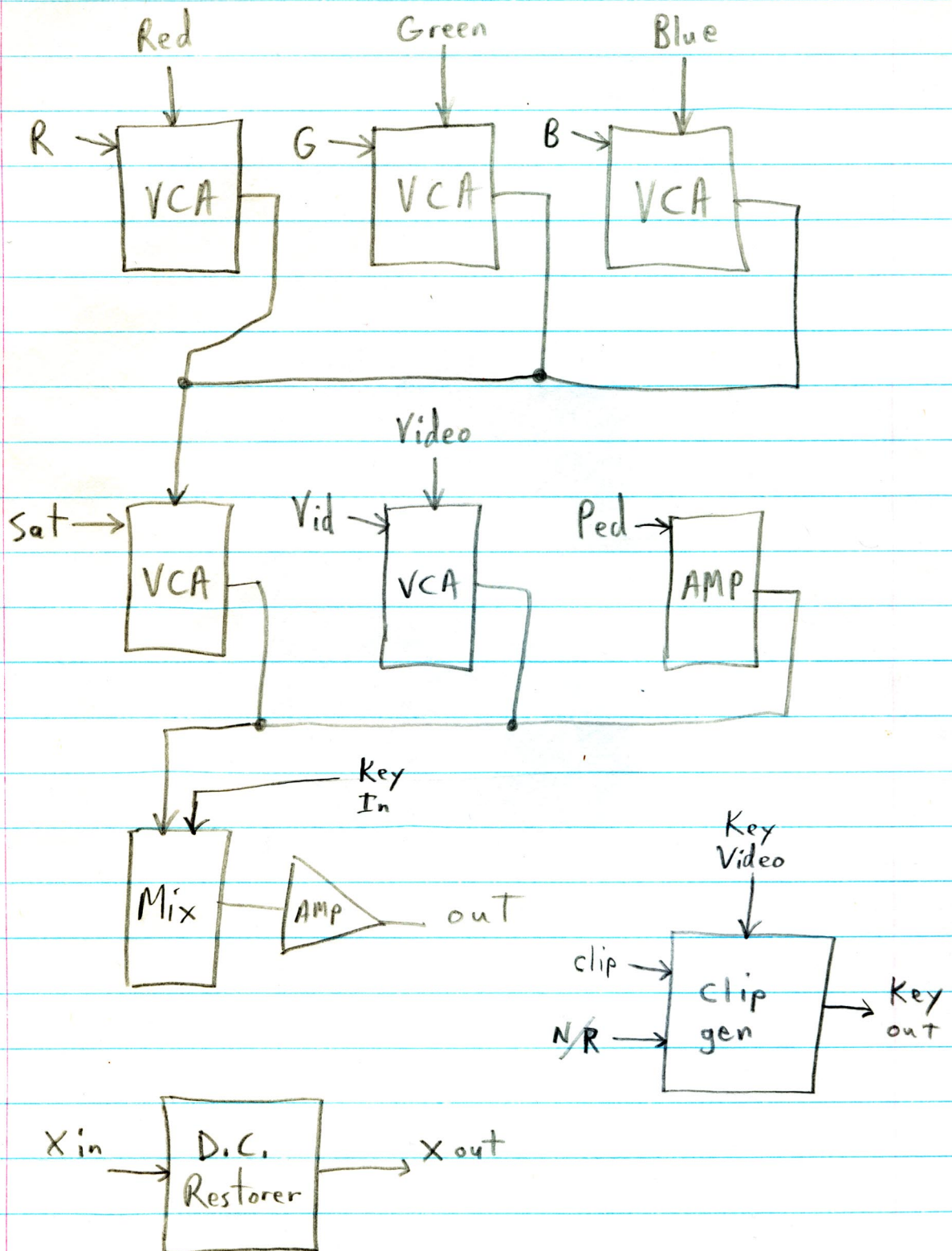
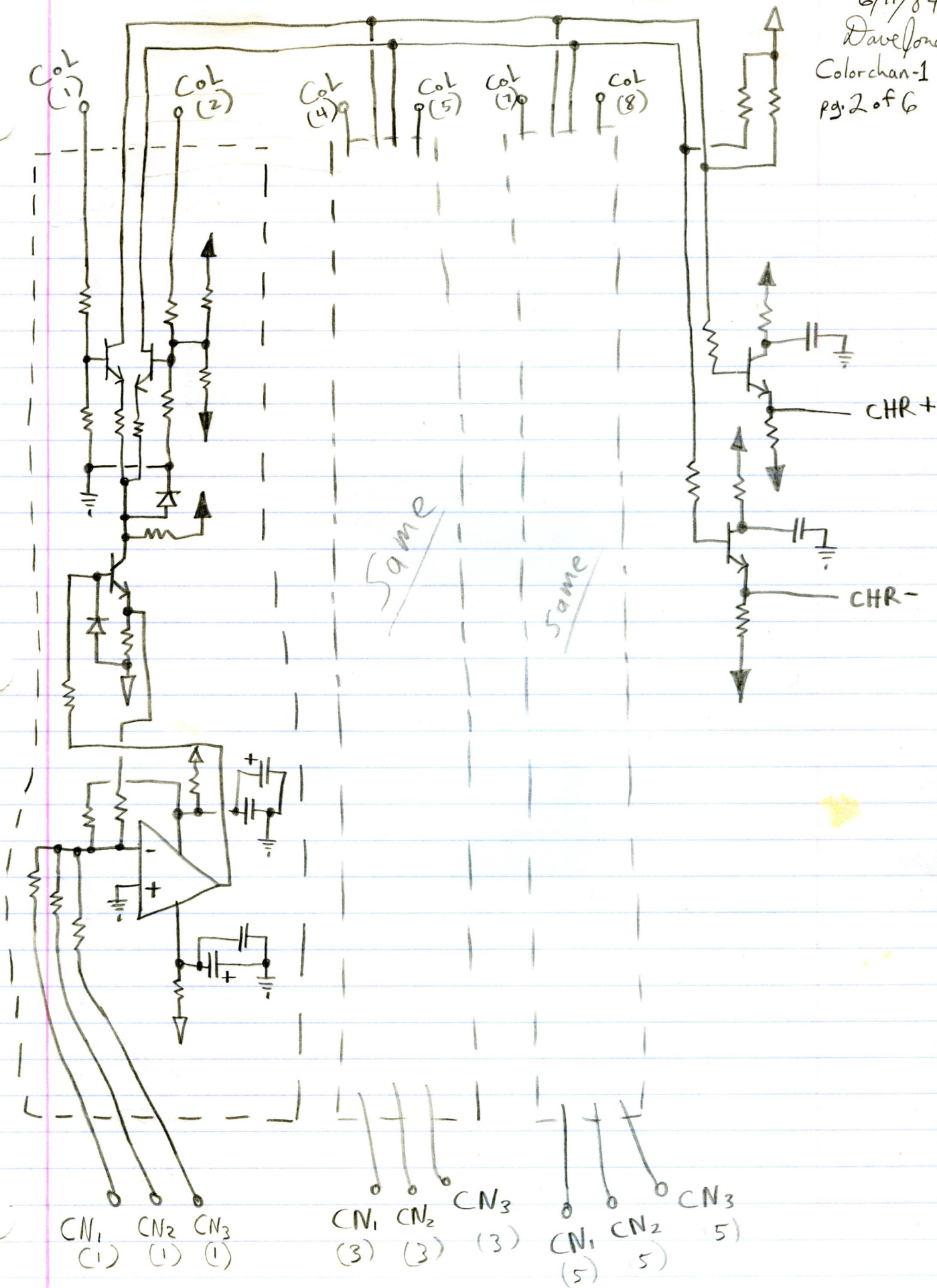


6/11/84  
DQ.  
Colorchan-1  
pg. 1 of 6

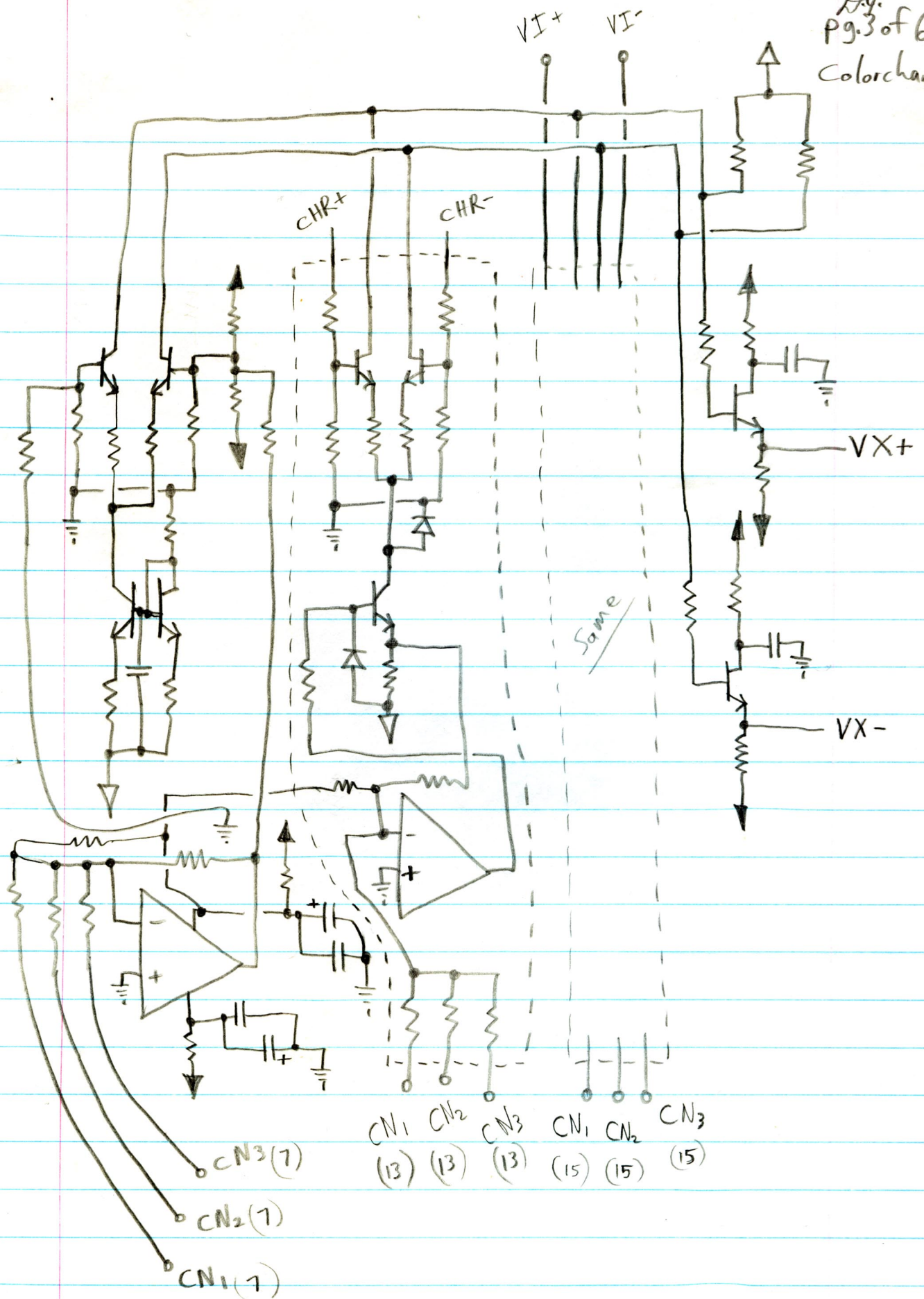


6/11/84  
 Dave Jones  
 Colorchan-1  
 pg. 2 of 6

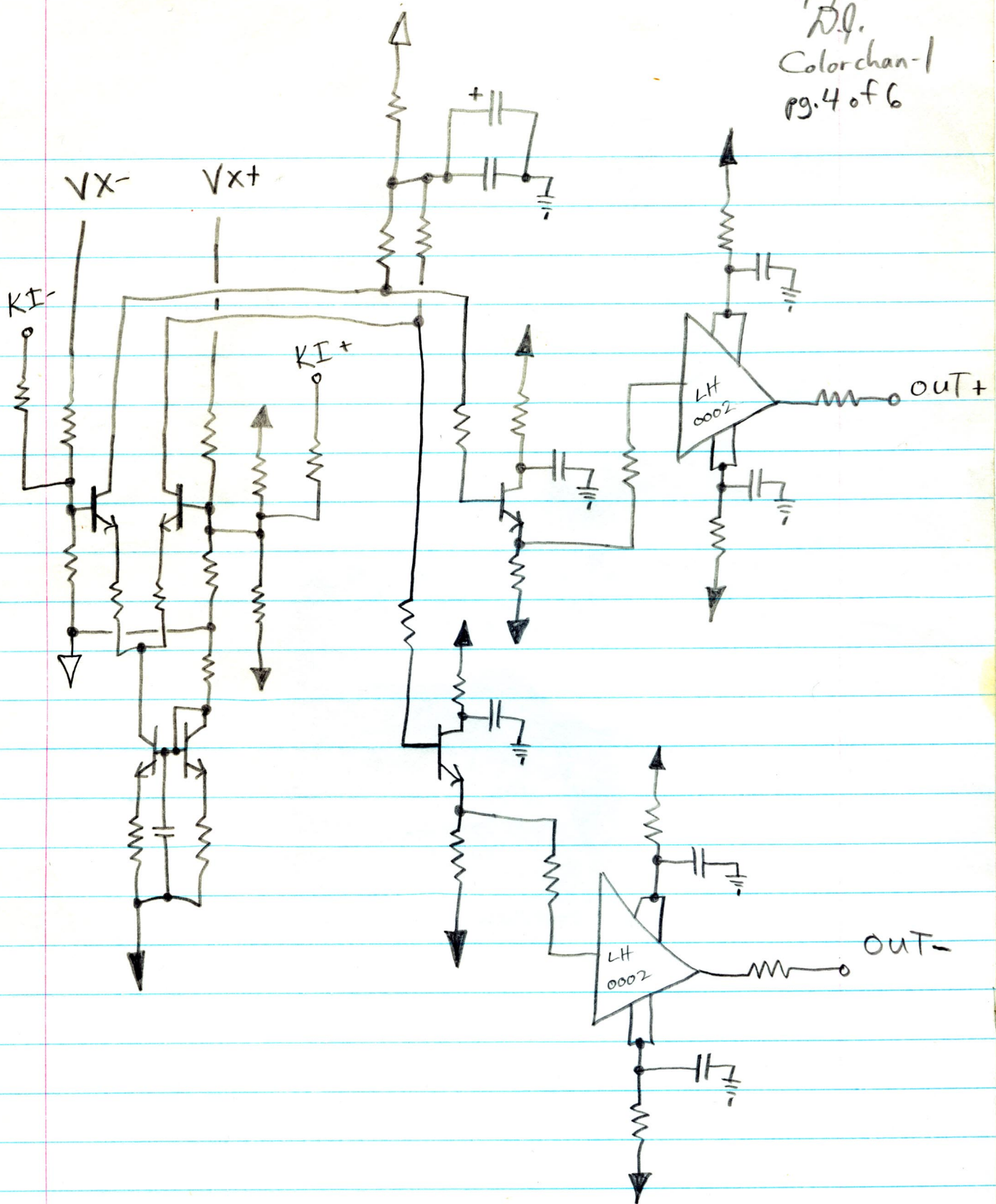




6/11/84  
D.G.  
Pg. 3 of 6  
Colorchan-1

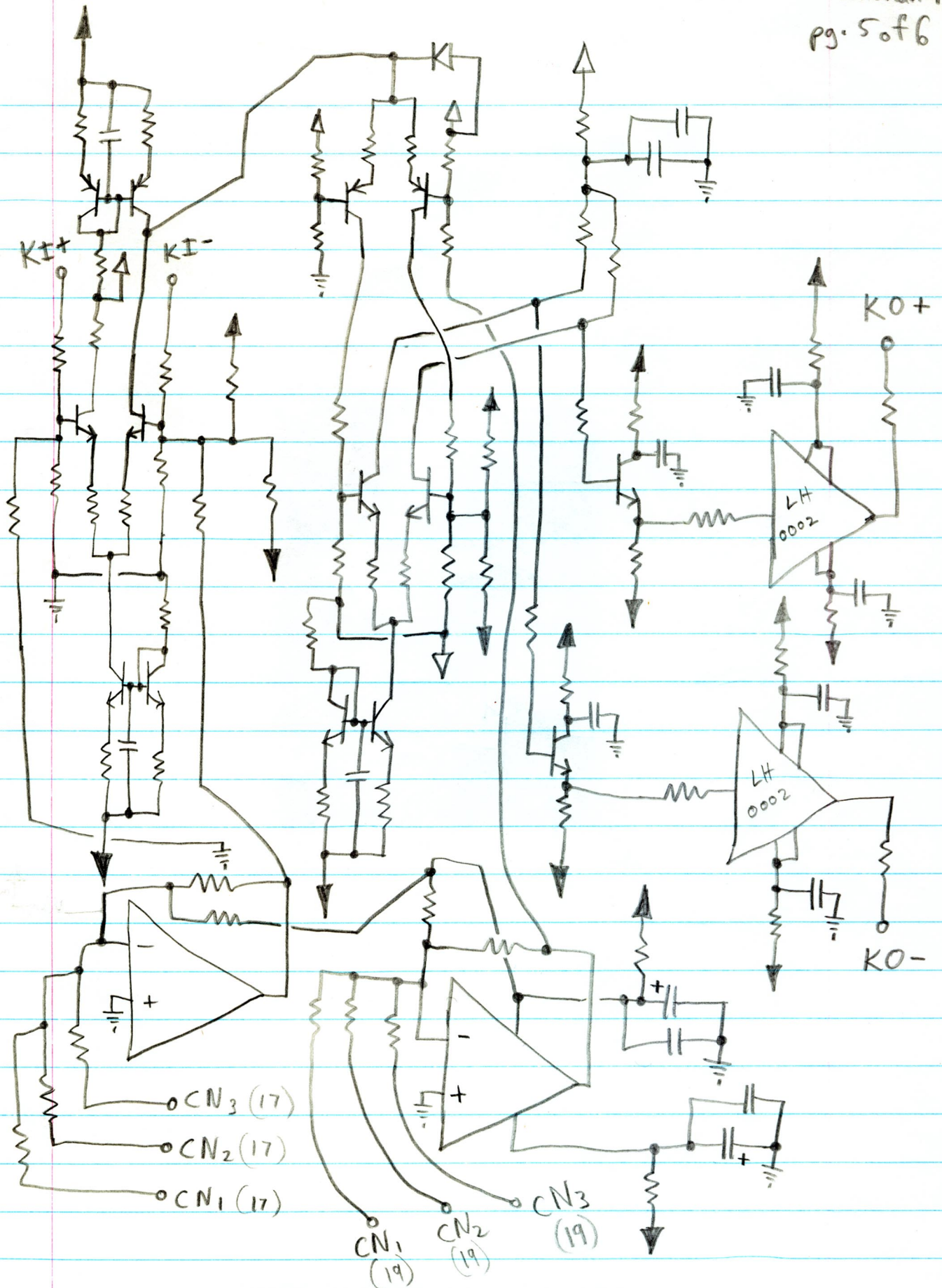


6/11/84  
D.Q.  
Colorchan-1  
pg. 4 of 6



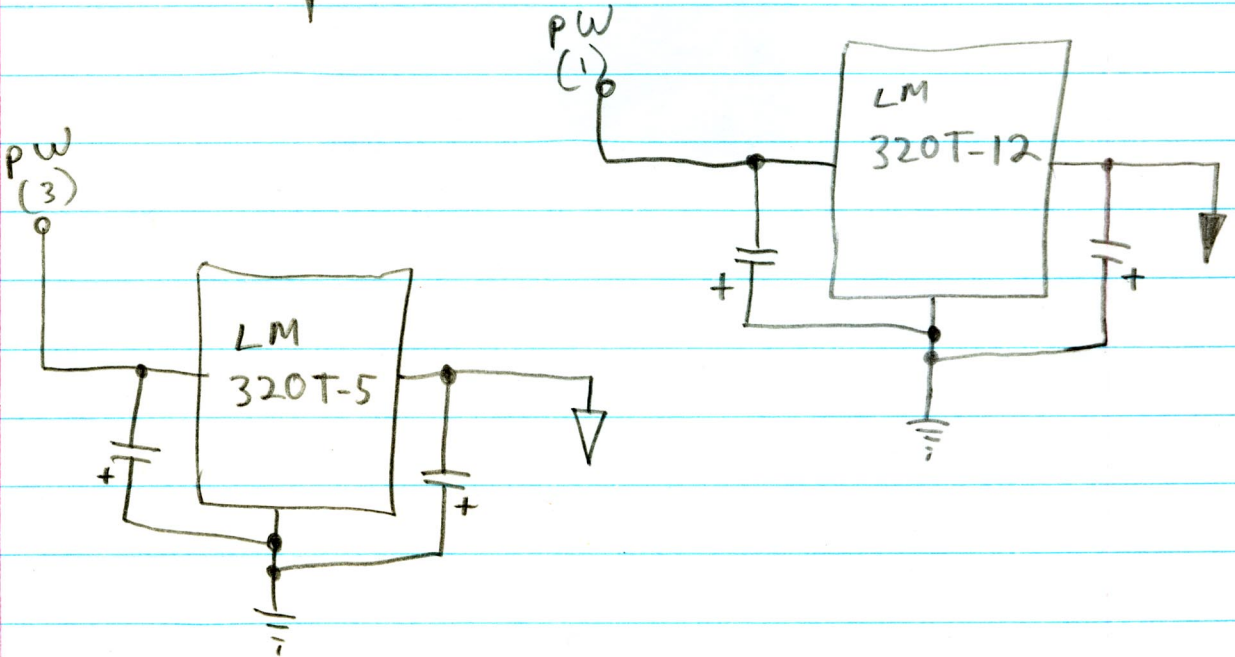
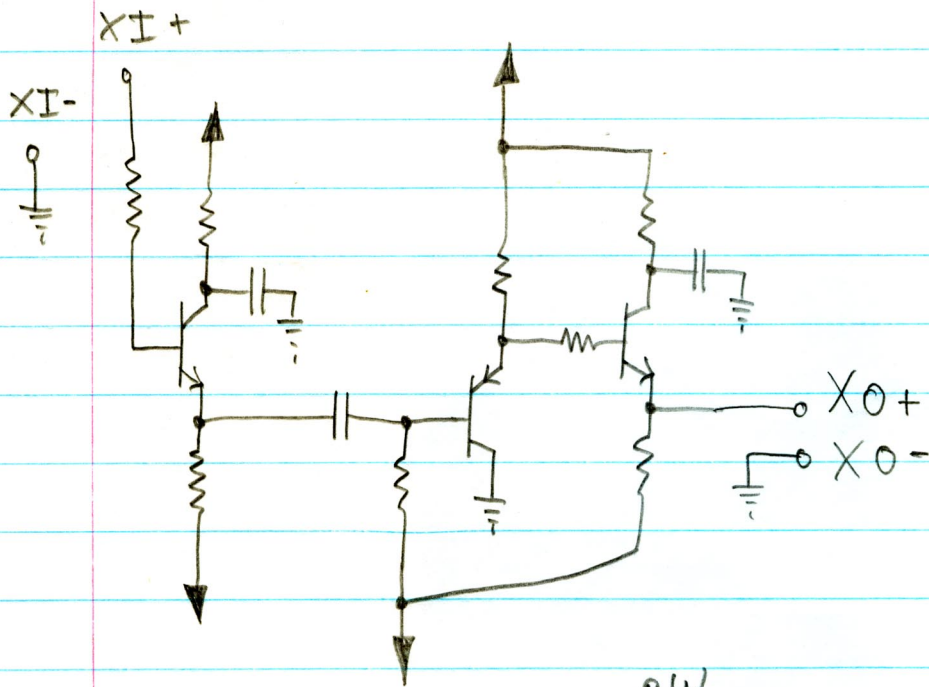
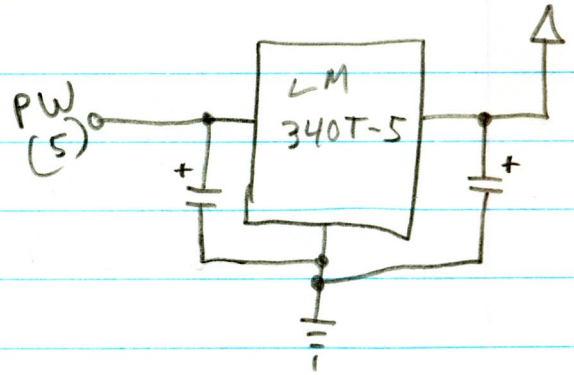
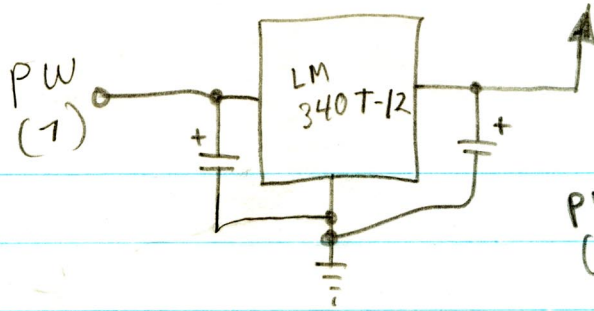


6/11/84 DQ.  
Colorchan-1  
pg. 5 of 6



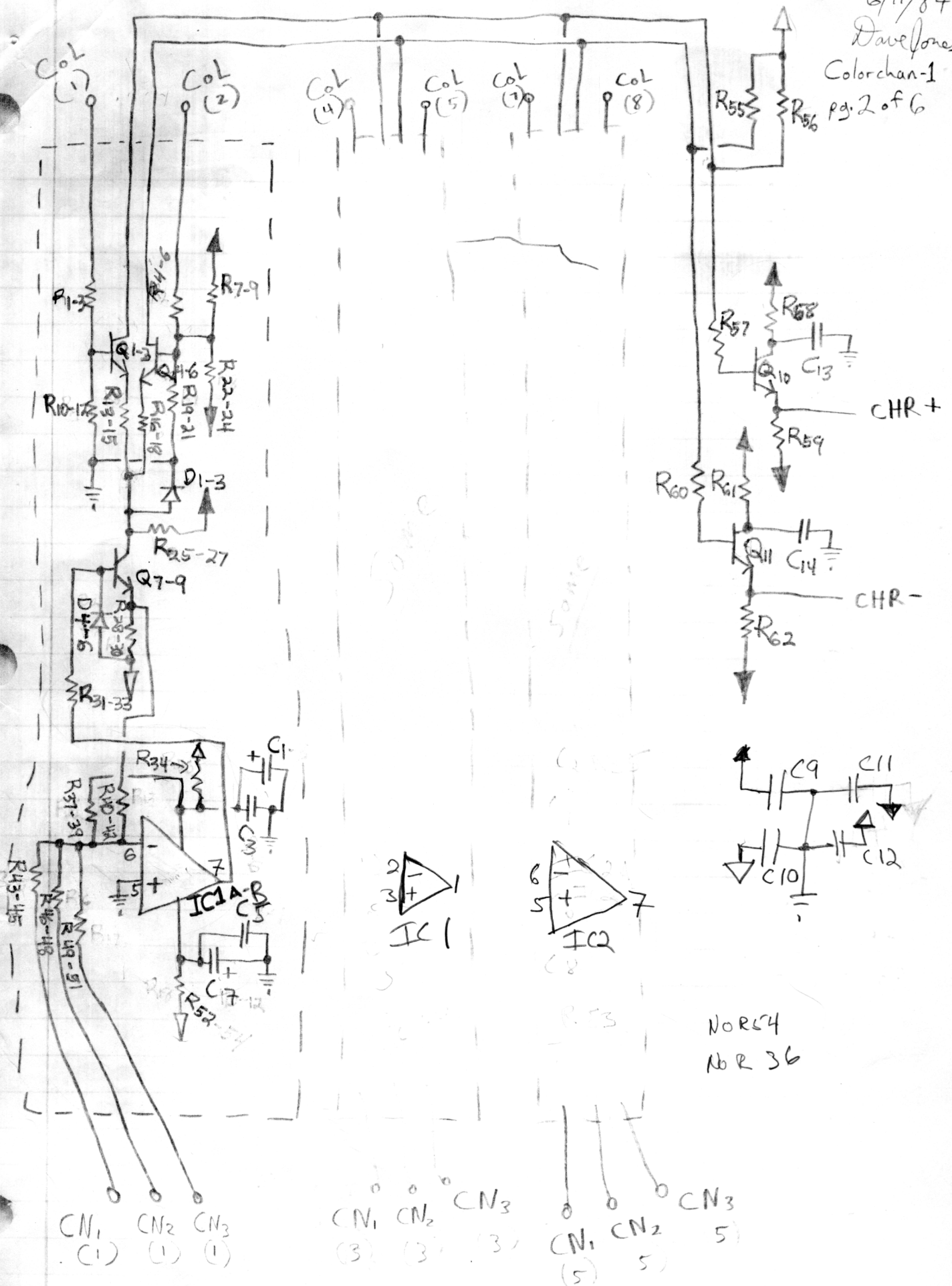
6/11/84 DQ.

Colorchan-1  
pg. 6 of 6

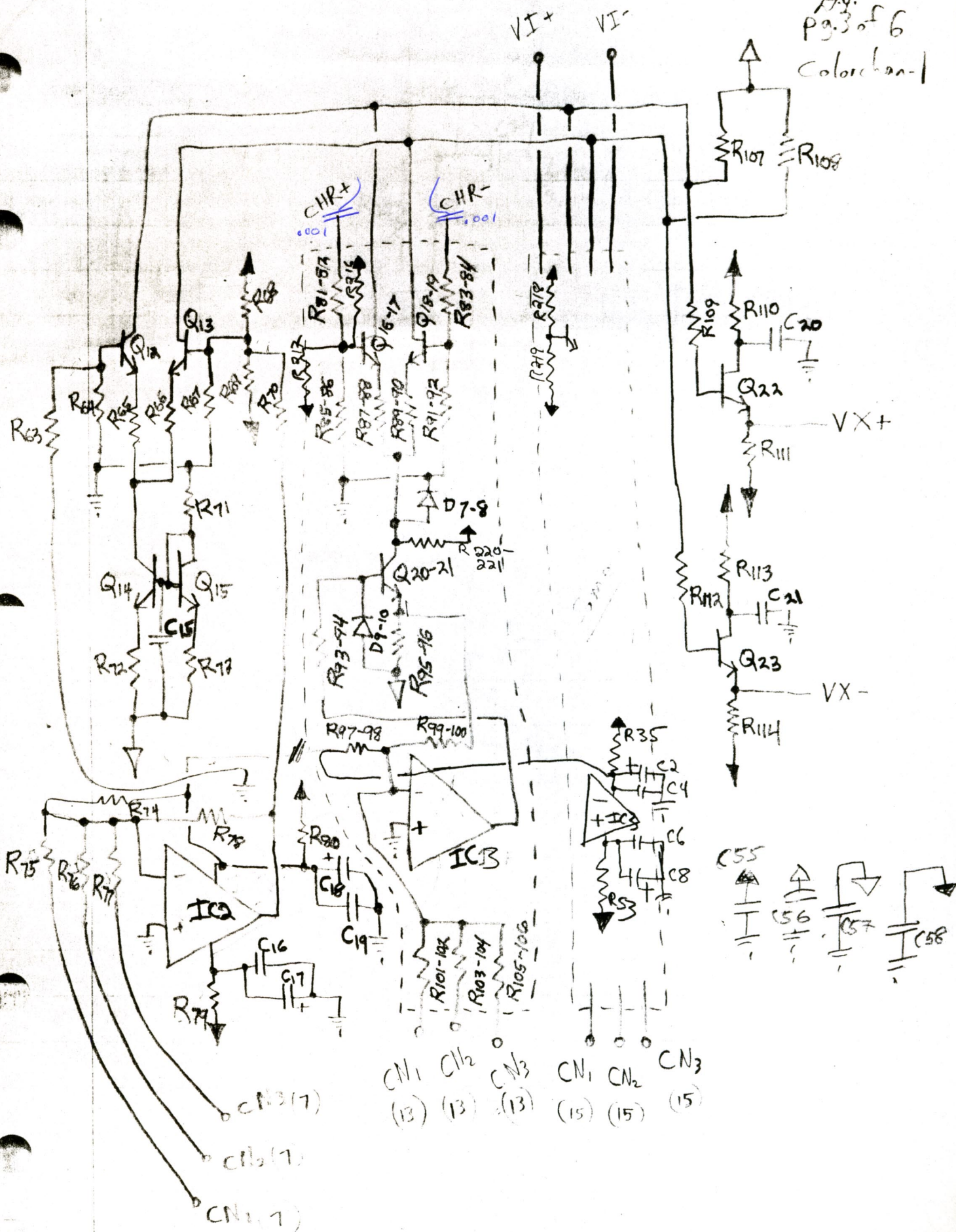




6/11/84  
 Dave Jones  
 Colorchan-1  
 pg. 2 of 6

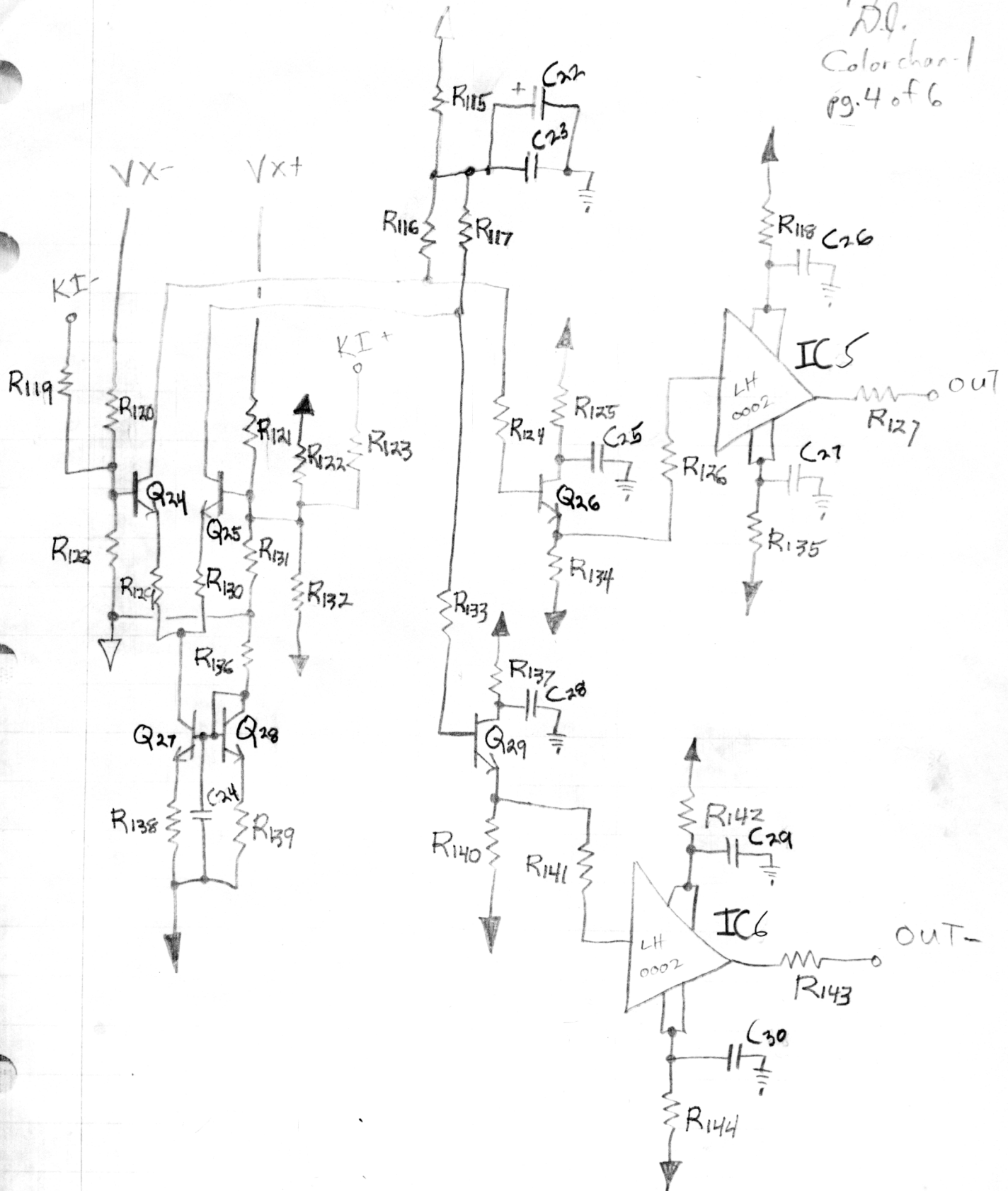


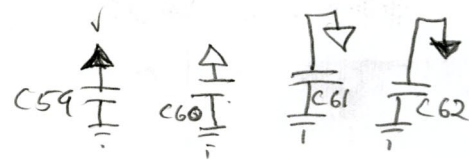
6/11/84  
 P. 3 of 6  
 Color channel 1



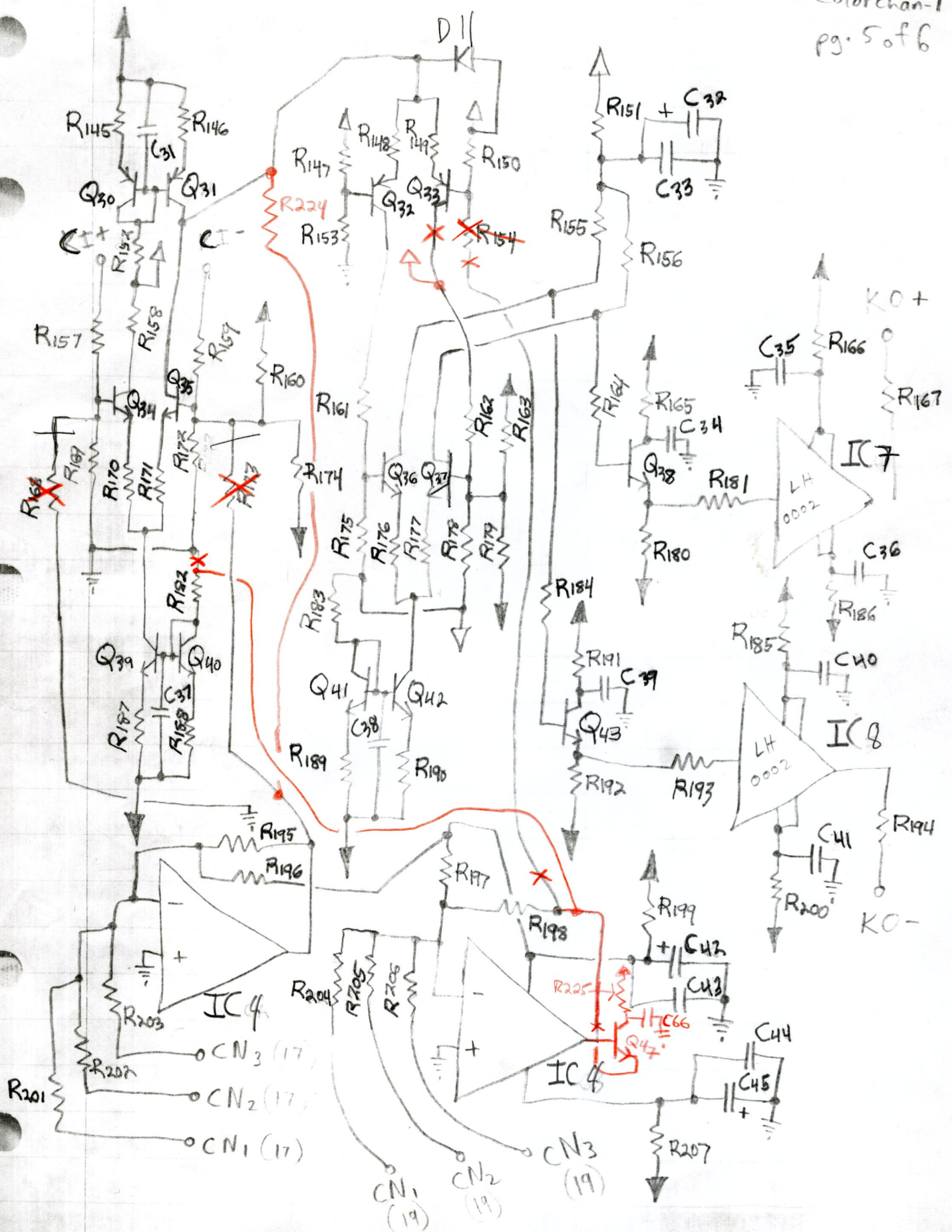


6/11/84  
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Color chan-1  
pg. 4 of 6



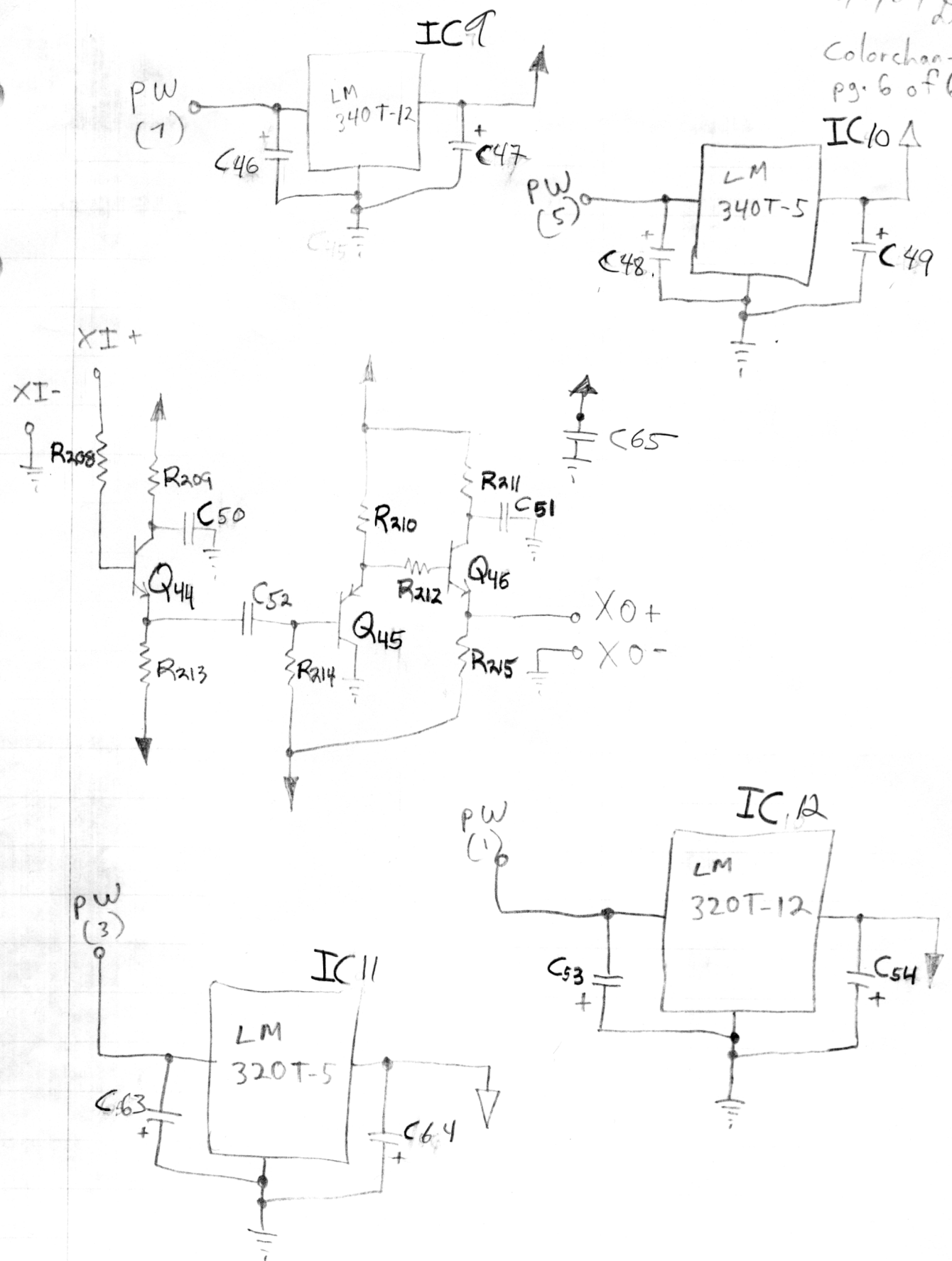


6/11/84 DQ  
Colorchan-1  
pg. 5 of 6



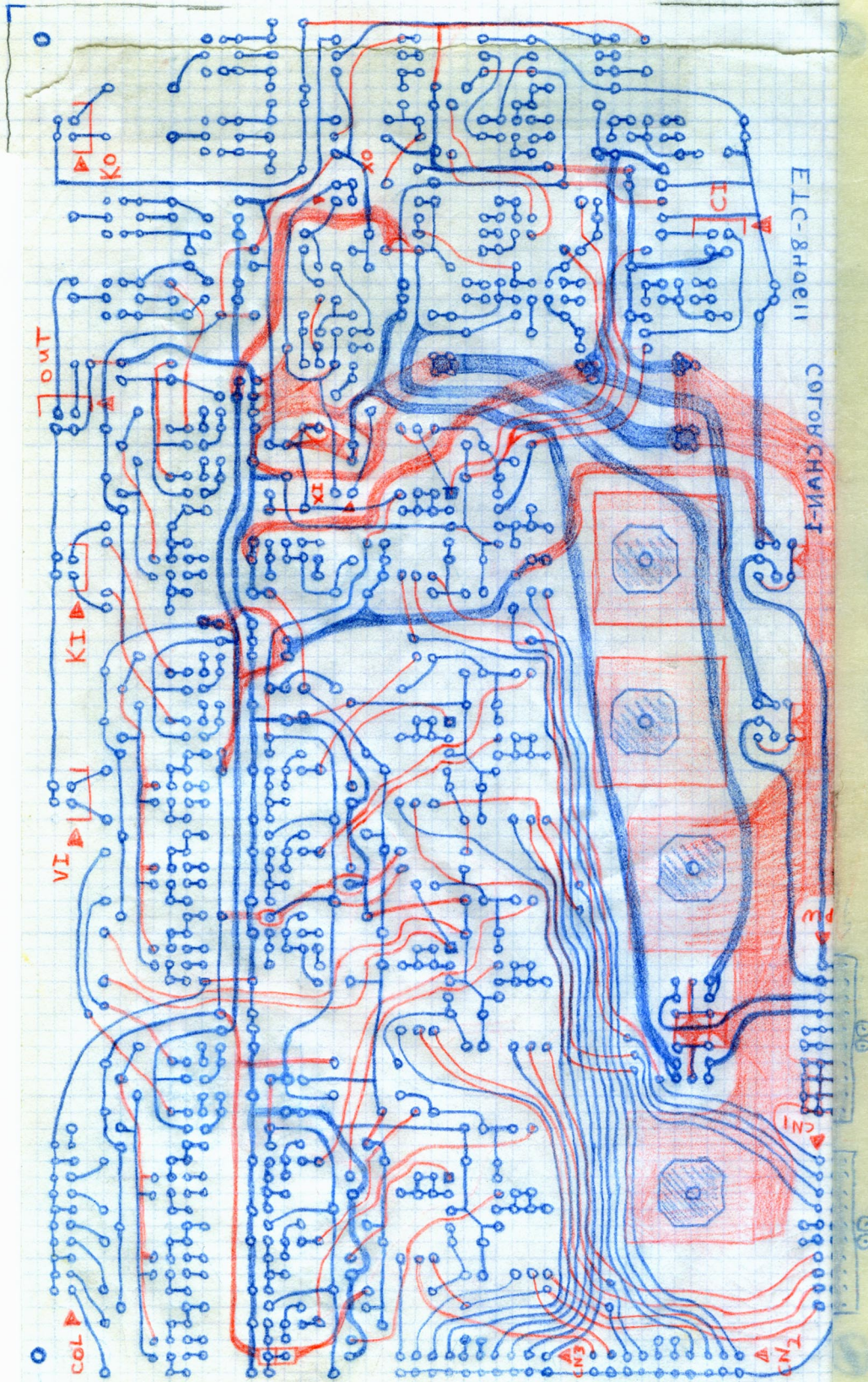


6/11/84 DQ.  
Colorchan-1  
pg. 6 of 6

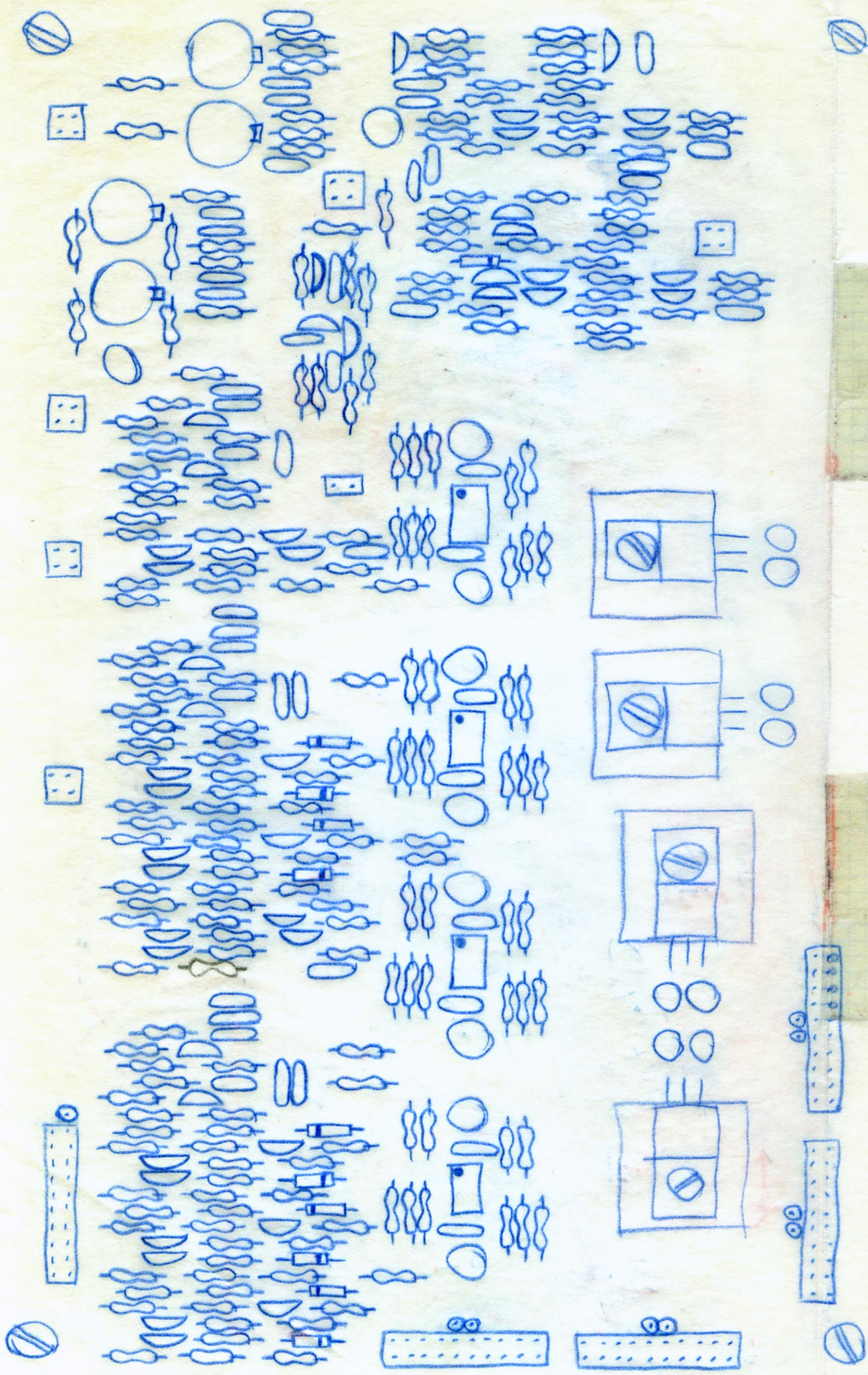


ELC-8Hae11

COPOPCAN-1





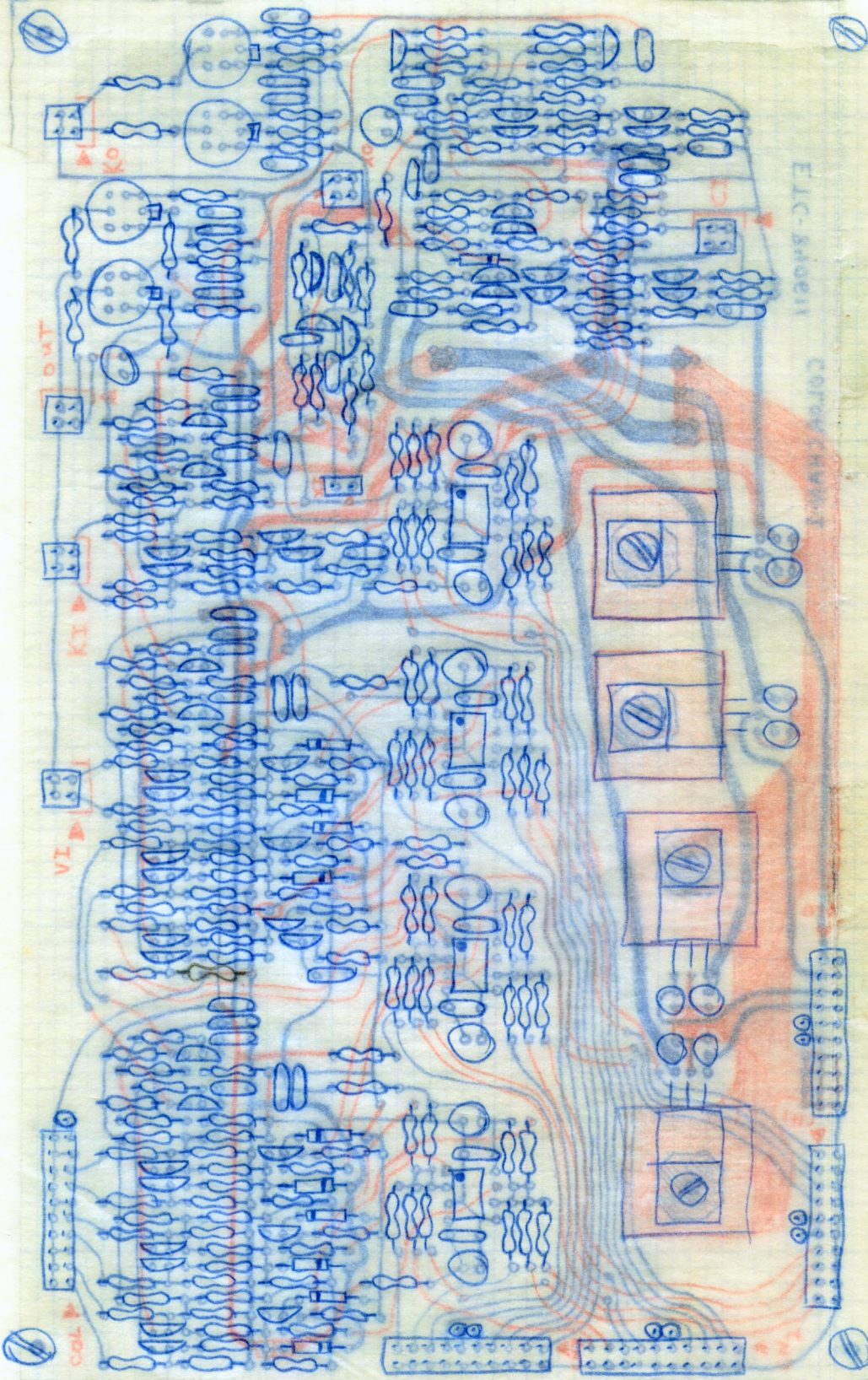


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ELC-38021

COFACCHINI





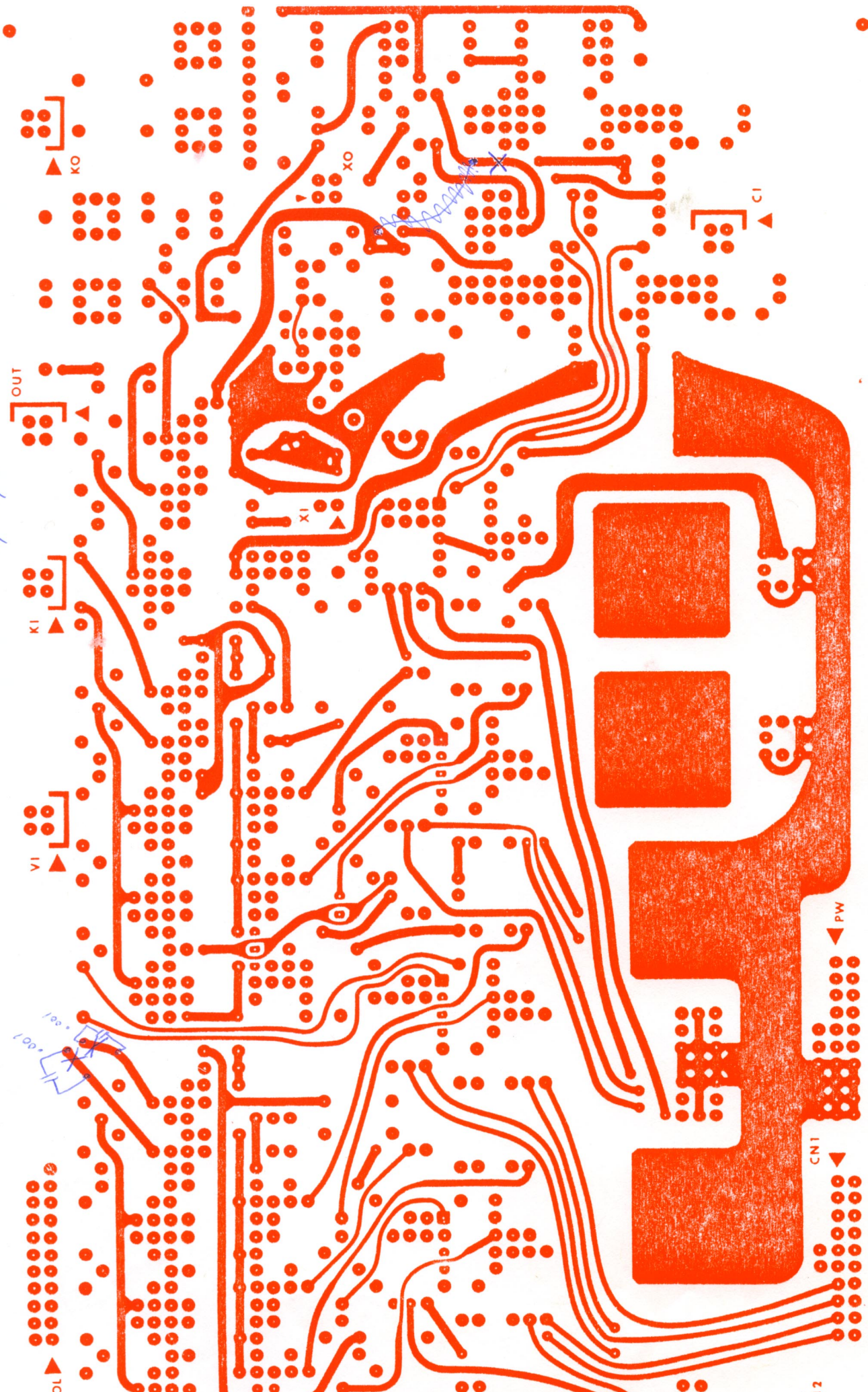
Colorechan-1

Component side

12/18/85

cuts & Jumpers

11/12/86

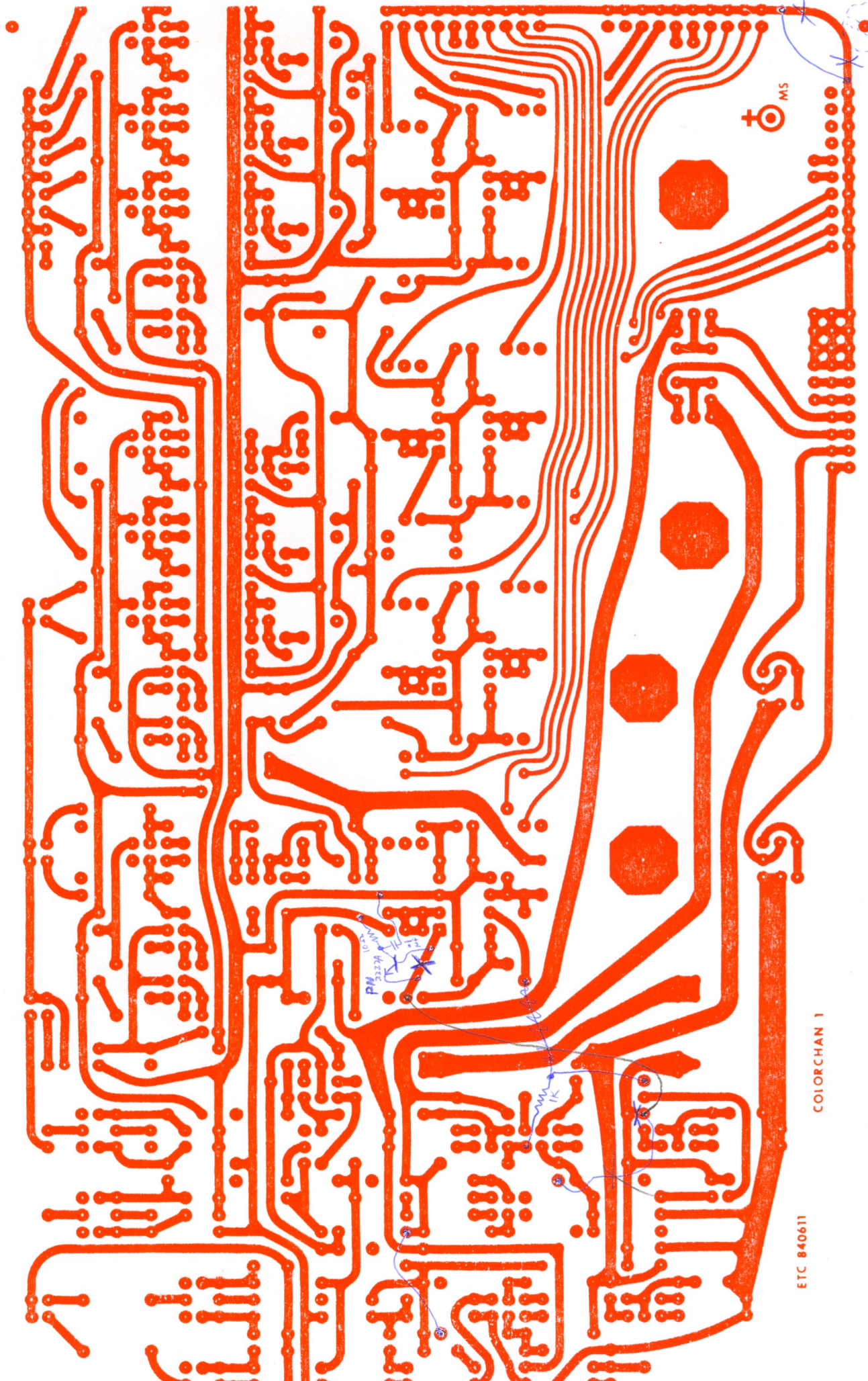




11/12/86

[Solder side]

Colorchan-1

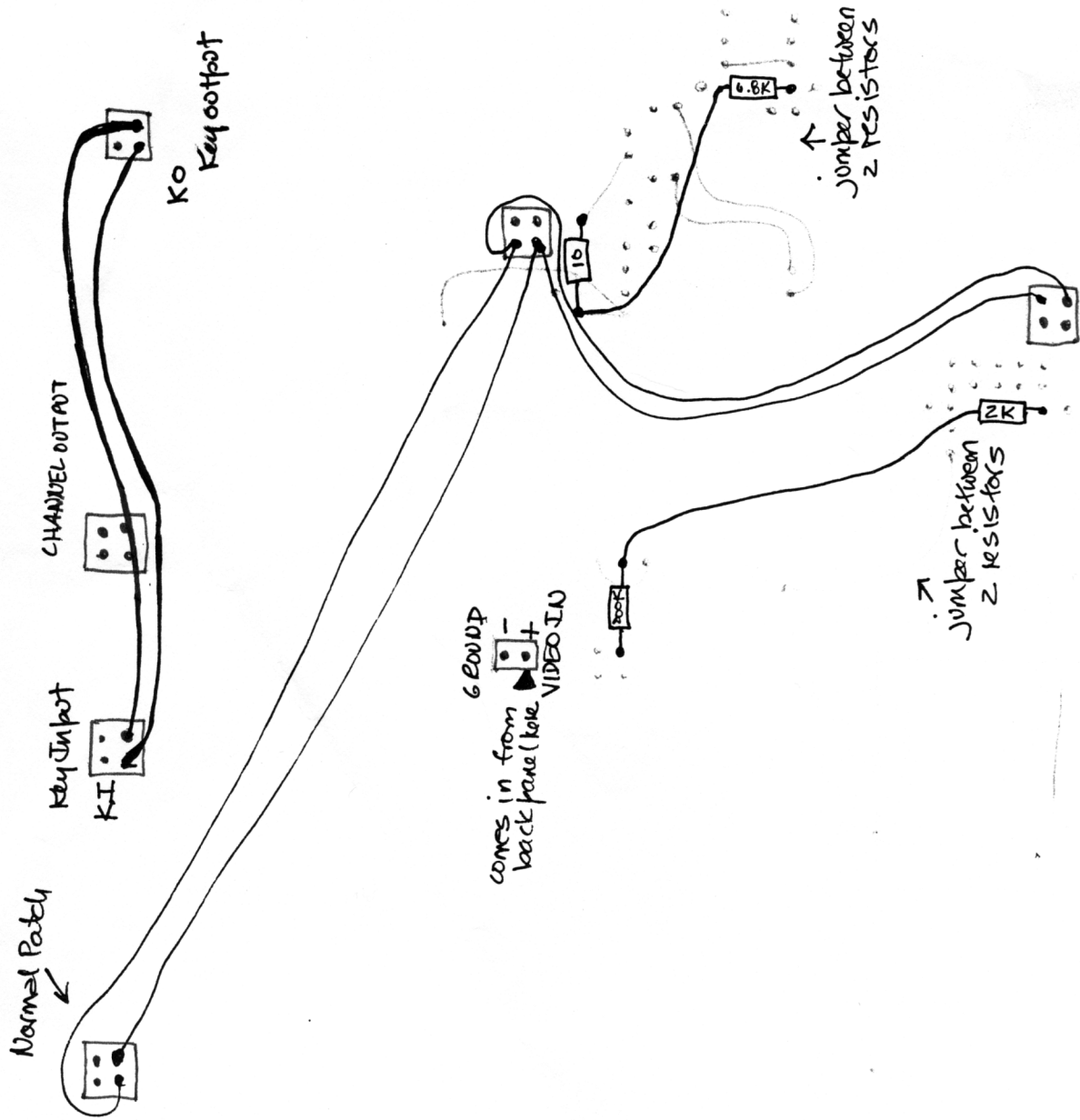


ETC 840611

COLORCHAN 1

only if surface

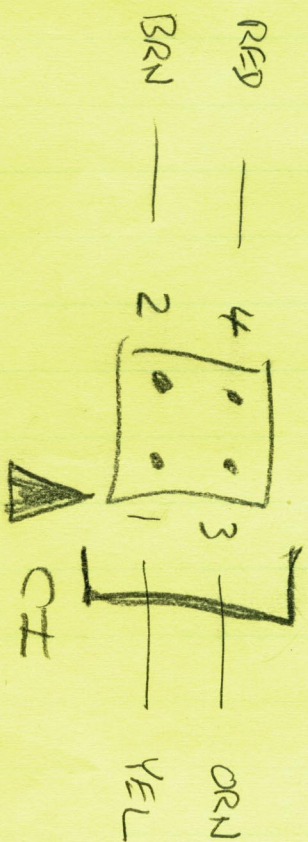
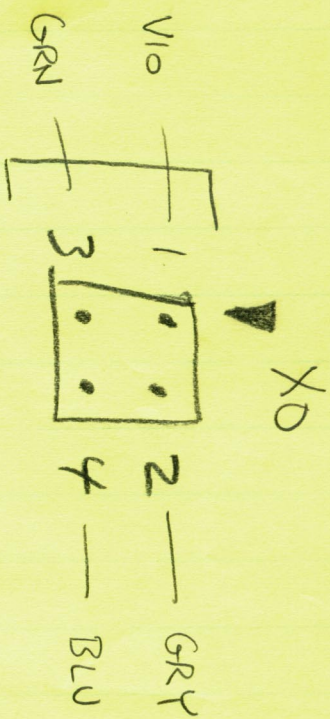
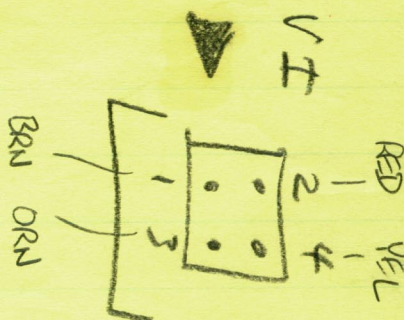
# COLOR CHAN-1 COMPONENT SIDE





1- VI	1
2- VI	2
3- VI	3
4- VI	4
5- XO	3
6- XO	4
7- XO	1
8- XO	2
9-	
10-	
11- CI	2
12- CI	4
13- CI	3
14- CI	1

$\frac{0}{4}$  ft  
 $\frac{1}{4}$   
 $\frac{1}{8}$





# COLOR CHAN 1

QUANTITY/BOARD

Q		Q	
4	LF 353	2	1.5K
4	LH 0002CH	2	2 K
1	LM 340T-12	10	3 K
1	LM 340T-5	6	5.1 K
1	LM 320T-5	4	10 K
1	LM 320T-12	5	20K
41	2N3904	5	56K
5	2N3906	1	75K
47	• 1 $\mu$ t disc	28	100K
18	22 $\mu$ t 25V Elec	1	200K
4	• 1 $\mu$ t 35V TANT	5	1 M
2	22 $\mu$ t 16V TANT	2	750
2	22 $\mu$ t 25V TANT	6	20 pin HEADER
10	1N4148	2	100 $\mu$ t 25V
46	10 $\Omega$	4	8 pin DIP
4	75		
1	100		
4	150		
3	200		
1	220		
26	300		
2	330		
19	390		
4	510		
1	620		
2	820		
9	1K		



# Colorchau-1

## parts count

.1 - 47

100@25 - 2

22@25 - 8

2N3906 - 5

2N3904 - 41

8 pin sockets - 4

LF353 - 4

LH0002CH - 4

2x10 header - 5

2x2 header - 6

2x1 header - 1

840611 PCB - 1

	(1)	(4)	(6)	(10)
10 $\Omega$ - 47	188	282	470	
75 - 4	16	24	40	
100 - 1	4	6	10	
150 - 4	16	24	40	
200 - 2	8	12	20	
220 - 1	4	6	10	
300 - 26	104	156	260	
330 - 3	12	18	30	
390 - 19	76	114	190	
510 - 4	16	24	40	
620 - 1	4	6	10	
750 - 2	8	12	20	
820 - 2	8	12	20	
1K - 9	36	54	90	
1.5K - 2	8	12	20	
2K - 2	8	12	20	
3K - 10	40	60	100	
5.1K - 6	24	36	60	
10K - 3	12	18	30	
20K - 5	20	30	50	
56K - 5	20	30	50	
75K - 1	4	6	10	
100K - 29	116	174	290	
200K - 1	4	6	10	
1M - 5	20	30	50	

with regulators add:

7812 - 1

7805 - 1

7905 - 1

7912 - 1

Small heat sink - 4

22 $\mu$  Tantalum caps - 4

.1 $\mu$  " " - 4 - (maybe make 22 $\mu$ )

4/40 x 1/2" bolt & nut - 4

200 $\Omega$  - 1

1N4148 - 10 40 60 100

with out regulators  
add:

100 $\mu$ @25 - 4

40.8  
27.3

# COCORIZER

IC 1 LF 353

↑ 1

IC 2 LF 353

IC 3 LF 353

Q 1-3 2N 3904

IC 4 LF 353

Q 4-6 2N 3904

IC 5 LH 0002 CH

Q 7-9 2N 3904

IC 6 LH 0002 CH

Q 10 2N 3904

IC 7 LH 0002 CH

Q 11 2N 3904

IC 8 LH 0002 CH

Q 12 2N 3904

IC 9

Q 13 2N 3904

Q 14 2N 3904

IC 9 LM 340 T-12

Q 15 2N 3904

IC 10 LM 340 T-5

Q 16-17 2N 3904

IC 11 LM 320 T-5

Q 18-19 2N 3904

IC 12 LM 320 T-12

Q 20-21 2N 3904

Q 22-23 2N 3904

Q 23 2N 3904

Q 24 2N 3904

Q 25 2N 3904

Q 26 2N 3904

Q 27 2N 3904

Q 28 2N 3904

Q 29 2N 3904

Q 30 2N 3906

Q 31 2N 3906

Q 32 2N 3906

Q 33 2N 3906

Q 34 2N 3904



p2

R 36  
R 54

Q 35	2N 3904	R 37-39 56k	R 74
Q 36	2N 3904	R 40-42 20k	R 75 100k
Q 37	2N 3904	R 43-45 100k	R 76 100k
Q 38	2N 3904	R 46-48 100k	R 77 100k
Q 39	2N 3904	R 49-51 100k	R 78 100k
Q 40	2N 3904	R 52-53 10	R 79 10
Q 41	2N 3904	R 55 620	R 80 10
Q 42	2N 3904	R 56 620	R 81 1.5k R 82 2k
Q 43	2N 3904	R 57 390	R 83 1.5k R 84 2k
Q 44	2N 3904	R 58 10	R 85-86 300
Q 45	2N 3906	R 59 3k	R 87-88 10
Q 46	2N 3904	R 60 390	R 89-90 10
Q 47	PN 2222 *	R 61 10	R 91-92 300
R 1-3	5.1k	R 62 3k	R 93-94 1k
R 4-6	5.1k	R 63 10k	R 95-96 390
R 7-9		R 64 300	R 97-98 56k
R 10-12	300	R 65 10	R 99-100 20k
R 13-15	10	R 66 10	R 101-102 100k
R 16-18	10	R 67 300	R 103-104 100k
R 19-21	300	R 68	R 105-106 100k
R 22-24		R 69	R 107 150
R 25-27	1MEG	R 70 10k	R 108 150
R 28-30	390	R 71 220	R 109 390
R 31-33	1k	R 72 200	R 110 10
R 34-35	10	R 73 200	R 111 3k

R 36

# COLORIZER

p 3

R112	390	R137	10	R162	6.8k
R113	10	R138	300	R163	10
R114	3k	R139	300	R164	390
R115	10	R140	3k	R165	10
R116	1k	R141	390	R166	10
R117	1k	R142	10 NOT IN	R167	75
R118	10	R143	75	R168	—
R119	10k	R144	10 NOT IN	R169	300
R120	1k	R145	300	R170	10
R121	1k	R146	300	R171	10
R122		R147	300	R172	300
R123	10k	R148	10	R173	—
R124	390	R149	10	R174	10
R125	10	R150	300	R175	300
R126	390	R151	10	R176	10
R127	75	R152	330	R177	10
R128	300	R153	75k	R178	300
R129	10	R154	—	R179	
R130	10	R155	820	R180	3k
R131	300	R156	820	R181	390
R132		R157	150	R182	2k
R133	390	R158	100	R183	330
R134	3k	R159	150	R184	390
R135	10	R160		R185	10
R136	330	R161	510	R186	10



44

R 187	510	R 212	390	C 1,2,7,8	22μf 25v
R 188	510	R 213	3k	C 3-6	1μf
R 189	300	R 214	200k	C 9,1	100k
R 190	300	R 215	3k	C 10,1	100k
R 191	10	R 216		C 13	.1
R 192	3k	R 217		C 14	.1
R 193	390	R 218		C 15	.1
R 194	75	R 219		C 16	.1
R 195	100k	R 220	1MEG	C 17	22μf 25v ELEC
R 196		R 221	1MEG	C 18	22μf 25v ELEC
R 197		R 222	200	C 19	.1
R 198	200k	* R 223	10k BOTTOM	C 20	.1
R 199	10	R 224	1k * BOTTOM	C 21	.1
R 200	10	R 225	10 *	C 22	100μf 25v ELEC
R 201	100k			C 23	.1
R 202	100k			C 24	.1
R 203	100k			C 25	.1
R 204	100k			C 26	.1
R 205	100k			C 27	.1
R 206	100k			C 28	.1
R 207	10			C 29	.1
R 208	390			C 30	.1
R 209	10			C 31	.1
R 210	10k			C 32	100μf 25v ELEC
D 211	10			C 33	.1

# COLORIZER P.5

C34	.1	D1-3	1N 4148
C35	.1	D4-6	1N 4148
C36	.1	D7-8	1N 4148
C37	.1	D9-10	1N 4148
C38	.1	D11	1N 4148
C39	.1		
C40	.1		
C41	.1		
C42	22 $\mu$ t 25V ELEC	C59	.1
C43	.1	C60	.1
C44	.1	C61	.1
C45	22 $\mu$ t 25V ELEC	C62	.1
C46	.1 $\mu$ t 50V OR 35V TANT.	C63	.1 $\mu$ t 35V TANT.
C47	22 $\mu$ t 25V TANT.	C64	22 $\mu$ t 16V TANT.
C48	.1 $\mu$ t 35V TANT	C65	.1
C49	22 $\mu$ t 16V TANT	C66	.1 *
C50	.1		
C51	.1 35V TANT.		
C52	.1 35V TANT.		
C53	.1 $\mu$ t 35V TANT		
C54	22 $\mu$ t 25V TANT		
C55	.1		
C56	.1		
C57	.1		
C58	.1		



# COLOR CHAN 1

QUANTITY/BOARD

Q		Q	
4	LF 353	2	1.5K
4	LH 0002CH	2	2 K
1	LM 340T-12	10	3 K
1	LM 340T-5	6	5.1 K
1	LM 320T-5	4	10 K
1	LM 320T-12	5	20K
41	2N3904	5	56K
5	2N3906	1	75K
47	• 1 $\mu$ t disc	28	100K
18	22 $\mu$ t 25V Elec	1	200K
4	• 1 $\mu$ t 35V TANT	5	1 M
2	22 $\mu$ t 16V TANT	2	750
2	22 $\mu$ t 25V TANT	6	20 pin HEADER
10	1N4148	2	100 $\mu$ t 25V
46	10 $\Omega$	4	8 pin DIP
4	75		
1	100		
4	150		
3	200		
1	220		
26	300		
2	330		
19	390		
4	510		
1	620		
2	820		
9	1K		



**Designlab**BOARD NAME ColorchanBOARD NUMBER                     COMMENTS                                     All resistors are  $\frac{1}{4}$  watt 5% unless noted

\* = Added only if needed

SCHEMATIC NUMBER	PART NUMBER / VALUE
R1	5.1K
R2	5.1K
R3	5.1K
R4	5.1K
R5	5.1K
R6	5.1K
R7	*
R8	*
R9	*
R10	300
R11	300
R12	300
R13	10
R14	10
R15	10
R16	10
R17	10
R18	10
R19	300
R20	300
R21	300
R22	*
R23	*
R24	*
R25	1M

SCHEMATIC NUMBER	PART NUMBER / VALUE
R26	1M
R27	1M
R28	390
R29	390
R30	390
R31	1K
R32	1K
R33	1K
R34	10
R35	10
R36	X
R37	56K (when using Audio taper pots, these must be tri
R38	56K "
R39	56K "
R40	20K
R41	20K
R42	20K
R43	100K
R44	100K
R45	100K
R46	100K
R47	100K
R48	100K
R49	100K
R50	100K



**Designlab**BOARD NAME ColorchanBOARD NUMBER                     COMMENTS                                     

SCHEMATIC NUMBER	PART NUMBER / VALUE
R51	100K
R52	10
R53	10
R54	X
R55	620
R56	620
R57	300
R58	10
R59	3K
R60	300
R61	10
R62	3K
R63	20K
R64	300
R65	10
R66	10
R67	300
R68	⊗
R69	⊗
R70	20K
R71	220
R72	200
R73	200
R74	⊗
R75	100K

SCHEMATIC NUMBER	PART NUMBER / VALUE
R76	100K
R77	100K
R78	100K
R79	10
R80	10
R81	1.5K
R82	2K (10pf on top)
R83	1.5K
R84	2K (10pf on top)
R85	300
R86	300
R87	10
R88	10
R89	10
R90	10
R91	300
R92	300
R93	1K
R94	1K
R95	390
R96	390
R97	56K (needs trimming Audio taper pots used)
R98	56K
R99	20K
R100	20K

**Designlab**BOARD NAME ColorchanBOARD NUMBER                     COMMENTS                                     

SCHEMATIC NUMBER	PART NUMBER / VALUE
R101	100K
R102	100K
R103	100K
R104	100K
R105	100K
R106	100K
R107	150
R108	150
R109	300
R110	10
R111	3K
R112	300
R113	10
R114	3K
R115	10
R116	1K
R117	1K
R118	10
R119	10K
R120	1K (47pf on top)
R121	1K "
R122	* (maybe 120K)
R123	10K
R124	300
R125	10

SCHEMATIC NUMBER	PART NUMBER / VALUE
R126	300
R127	75
R128	300
R129	10
R130	10
R131	300
R132	12K
R133	300
R134	3K
R135	10
R136	330
R137	10
R138	300
R139	300
R140	3K
R141	300
R142	10
R143	75
R144	10
R145	300
R146	300
R147	300
R148	10
R149	10
R150	300



**Designlab**BOARD NAME ColorchanBOARD NUMBER                     COMMENTS                                     

SCHEMATIC NUMBER	PART NUMBER / VALUE
R151	10
R152	330
R153	75K
R154	<del>X</del>
R155	820
R156	820
R157	750
R158	100
R159	750
R160	✱
R161	510
R162	6.8K
R163	✱
R164	300
R165	10
R166	10
R167	75
R168	<del>X</del>
R169	300
R170	10
R171	10
R172	300
R173	<del>X</del>
R174	✱
R175	300

SCHEMATIC NUMBER	PART NUMBER / VALUE
R176	10
R177	10
R178	300
R179	✱
R180	3K
R181	300
R182	2K
R183	330
R184	300
R185	10
R186	10
R187	510
R188	510
R189	300
R190	300
R191	10
R192	3K
R193	300
R194	75
R195	100K
R196	✱
R197	✱
R198	200K
R199	10
R200	10

**Designlab**BOARD NAME ColorchanBOARD NUMBER                     COMMENTS                                     

SCHEMATIC NUMBER	PART NUMBER / VALUE
R201	100K
R202	100K
R203	100K
R204	100K
R205	100K
R206	100K
R207	10
R208	300
R209	10
R210	10K
R211	10
R212	300
R213	3K
R214	1M
R215	3K
R216	
R217	
R218	
R219	
R220	1M
R221	1M
R222	200
R223	
R224	1K
R225	10

SCHEMATIC NUMBER	PART NUMBER / VALUE
R226	
R227	
R228	
R229	
R230	
R231	
R232	
R233	
R234	
R235	
R236	
R237	
R238	
R239	
R240	
R241	
R242	
R243	
R244	
R245	
R246	
R247	
R248	
R249	
R250	



**Designlab**BOARD NAME Colorchan

BOARD NUMBER \_\_\_\_\_

COMMENTS \_\_\_\_\_

Alum = Aluminum Electrolytic

Tant = Tantalum

SCHEMATIC NUMBER	PART NUMBER / VALUE
C1	22 $\mu$ f @ 25v (Alum)
C2	22 $\mu$ f @ 25v "
C3	.1 $\mu$ f
C4	.1
C5	.1
C6	.1
C7	22 $\mu$ f @ 25v (Alum)
C8	22 $\mu$ f @ 25v "
C9	.1
C10	.1
C11	.1
C12	.1
C13	.1
C14	.1
C15	.1
C16	.1
C17	22 $\mu$ f @ 25v (Alum)
C18	22 $\mu$ f @ 25 "
C19	.1
C20	.1
C21	.1
C22	100 $\mu$ f @ 25v (Alum)
C23	.1
C24	.1
C25	.1

SCHEMATIC NUMBER	PART NUMBER / VALUE
C26	.1
C27	.1
C28	.1
C29	.1
C30	.1
C31	.1
C32	100 $\mu$ f @ 25v (Alum)
C33	.1
C34	.1
C35	.1
C36	.1
C37	.1
C38	.1
C39	.1
C40	.1
C41	.1
C42	22 $\mu$ f @ 25v (Alum)
C43	.1
C44	.1
C45	22 $\mu$ f @ 25v (Alum)
C46	.1 @ 35v (Tant) OR (22 $\mu$ f Alum)
C47	22 $\mu$ f @ 25v (Tant or Alum)
C48	.1 @ 35v (Tant) OR (22 $\mu$ f Alum)
C49	22 $\mu$ f @ 16v (Tant or Alum)
C50	.1

**Designlab**

BOARD NAME

Colorchan

BOARD NUMBER \_\_\_\_\_

COMMENTS \_\_\_\_\_

SCHEMATIC NUMBER	PART NUMBER / VALUE
C51	.1
C52	.1
C53	.1 @ 35v (Tant) or (22 $\mu$ f Alum)
C54	22 $\mu$ f @ 25v (Tant or Alum)
C55	.1
C56	.1
C57	.1
C58	.1
C59	.1
C60	.1
C61	.1
C62	.1
C63	.1 @ 35v (Tant) or (22 $\mu$ f Alum)
C64	22 $\mu$ f @ 16v (Tant or Alum)
C65	.1
C66	.1
C67	
C68	
C69	
C70	
C71	
C72	
C73	
C74	
C75	

SCHEMATIC NUMBER	PART NUMBER / VALUE
C76	
C77	
C78	
C79	
C80	
C81	
C82	
C83	
C84	
C85	
C86	
C87	
C88	
C89	
C90	
C91	
C92	
C93	
C94	
C95	
C96	
C97	
C98	
C99	
C100	



**Designlab**BOARD NAME Colorchan

BOARD NUMBER \_\_\_\_\_

COMMENTS \_\_\_\_\_

SCHEMATIC NUMBER	PART NUMBER / VALUE
IC1	LF 353
IC2	LF 353
IC3	LF 353
IC4	LF 353
IC5	LH 0002CH
IC6	LH 0002CH
IC7	LH 0002CH
IC8	LH 0002CH
IC9	LM 340 T-12
IC10	LM 340 T-5
IC11	LM 320 T-5
IC12	LM 320 T-12
IC13	
IC14	
IC15	
IC16	
IC17	
IC18	
IC19	
IC20	
IC21	
IC22	
IC23	
IC24	
IC25	

SCHEMATIC NUMBER	PART NUMBER / VALUE
IC26	
IC27	
IC28	
IC29	
IC30	
IC31	
IC32	
IC33	
IC34	
IC35	
IC36	
IC37	
IC38	
IC39	
IC40	
IC41	
IC42	
IC43	
IC44	
IC45	
IC46	
IC47	
IC48	
IC49	
IC50	

**Designlab**BOARD NAME Colorchan

BOARD NUMBER \_\_\_\_\_

COMMENTS \_\_\_\_\_

SCHEMATIC NUMBER	PART NUMBER / VALUE
Q1	2N3904
Q2	"
Q3	"
Q4	"
Q5	"
Q6	"
Q7	"
Q8	"
Q9	"
Q10	"
Q11	"
Q12	"
Q13	"
Q14	"
Q15	"
Q16	"
Q17	"
Q18	"
Q19	"
Q20	"
Q21	"
Q22	"
Q23	"
Q24	"
Q25	"

SCHEMATIC NUMBER	PART NUMBER / VALUE
Q26	2N3904
Q27	"
Q28	"
Q29	"
Q30	2N3906
Q31	"
Q32	"
Q33	"
Q34	2N3904
Q35	"
Q36	"
Q37	"
Q38	"
Q39	"
Q40	"
Q41	"
Q42	"
Q43	"
Q44	"
Q45	2N3906
Q46	2N3904
Q47	PN2222A
Q48	
Q49	
Q50	



***Designlab***

BOARD NAME Colorchan

BOARD NUMBER \_\_\_\_\_

COMMENTS \_\_\_\_\_

[illegible][illegible]